ABSTRACT

Methods and systems for performing iterative soft slicing methods are disclosed. A data signal is received and processed into individual data tones. A noise estimator provides noise estimates for each data tone. A beamformer utilizes the noise estimates to provide first and second components of a constellation point estimate. A ratio of the first and second components corresponds to the constellation point estimate. A soft slicer uses outputs from the beamformer and noise estimator to determine weighted constellation points without dividing the first component by the second component.